

OPERATING INSTRUCTIONS

**for the 400 ft. magazine
of the Arriflex 35 Mod. IIA**



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Operating Instructions

for the 400 ft. magazine of the Arriflex 35 Mod. II A



The 400 ft magazines for black-and-white film supplied heretofore have proved too small for the various colour emulsions which are available nowadays, since colour film emulsion is a little thicker than black-and-white. The new 400 ft magazine for the ARRIFLEX 35, designed with this fact in mind, has a correspondingly greater-capacity and accepts the full 400 ft reels of colour film or of 500 ft black-and-white film. This means a regular 300 m black-and-white film roll can be halved and loaded into this magazine, giving 5½ minutes of shooting time (400 ft loads 4½ minutes).

Like all previous models, the new ARRIFLEX 35 magazine can be loaded only **with films wound emulsion side in on plastic cores with slot or lug.**

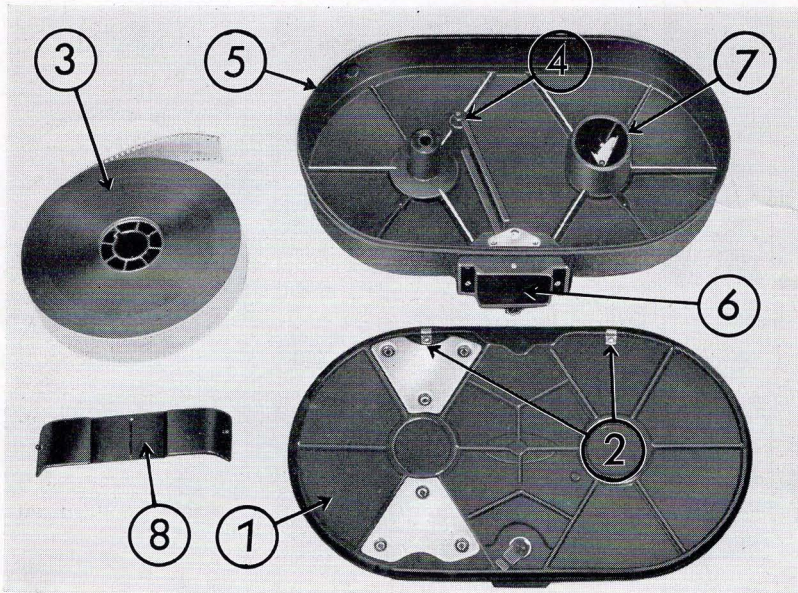
The operations described in the following instructions should be practiced first in daylight and with blank film until you are perfectly familiar with the whole operation. Loading in the darkroom or the changing bag with unexposed film will then be much easier and can be performed quickly and without unnecessary delay.

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First remove the lid of the magazine by turning the locking bar to the left and gripping the lid on the small projection above the bar. Then fold it forwards and lift it from its guides. Place the magazine on a table so that the cogwheel gear points towards you. Place the film reel on the left beside the magazine so that the film rolls off in a clockwise direction and the beginning points to the right, towards the magazine. The film should now be trimmed in the following way: — Use the template supplied with every camera and cut off the perforations on both sides up to approximately the 20th hole or so that first two perforation holes of the film are cut open.

Then the trimmed film leader is taken inside the open magazine and inserted from inside through the feed sprocket until it protrudes outside through the left film channel. This threading must be done so that the film is guided completely straight and parallel to the wall of the magazine in order to allow the perforations to engage the sprocket simultaneously on both sides. This can be facilitated by gently turning the cogwheel gear by hand.

Now the tensioning lever inside the magazine should be moved towards the right until it snaps in beside the take-up core. The film roll can now be slipped on the left-hand spindle. When cores with a slot are used, the spring of the spindle will snap in automatically after one single turn of the roll. If a core with a lug is employed the correct placing of the lug in the slot should be watched carefully, since, in this case, the spring does not snap in. After inserting the film roll into the magazine the film should lie perfectly flat especially near the core and, furthermore, it should be wound tightly.



- | | |
|------------------------------------|--------------------------|
| 1 = Magazine lid | 5 = Loop size marking |
| 2 = Locking clip | 6 = Magazine mouth |
| 3 = Unexposed film on plastic core | 7 = Take-up core |
| 4 = Tensioning lever | 8 = Loop protector cover |

Now the beginning of the film should be pulled out around the left outer rim of the magazine until the first perforation holes reach the loop size marking rib. This ensures the correct size of the film loops. **The portion of the film with the perforations cut off does not count in this measurement!** If too much film is pulled from the magazine the excess should be rolled back. The piece of film between the mouth of the magazine and the marking rib should lie absolutely flush along the edge of the magazine.

Without altering the length of this piece of film (which can be achieved by holding the cogwheel gear), the beginning of the film should then be turned towards the operator and inserted into the righthand channel of the magazine mouth by forming a loop at the same time. The perforations must engage the sprocket on both sides at the same time once again and the emulsion side should now be on the **outside** of the film loop.

A short portion of the beginning of the film should be pulled into the magazine, whilst making sure that the size of the film loop does not change. At the same time the smooth turning of the cogwheel gear must be watched. The tensioning lever is then released by depressing it to the right and then swung to the left until it rests against the inserted film roll.



Attention

The scale of the footage counter on the back of the 400 ft magazine, indicating the length of film remaining to be exposed applies to black-and-white film! The approximate amount of available colour film can be determined by deducting about $\frac{1}{5}$ of the value indicated. The scale is available in feet or meters and can be exchanged, if need be, by unscrewing the screws and removing the cover over winding mechanism.

In contrast to the 200 ft and previous model 400 ft magazine, the new 400 ft magazine has a collapsible take-up core permanently attached to the winding spindle. When the magazine is loaded in the manner described above and the film is inserted properly up to the take-up core, the trimmed piece of film should be cut off at the beginning of the perforations proper. The film end, which is now of normal width, should be clamped into the take-up core by pressing to the left the clamping lever inside the core. Later, when the film is fully exposed, the clamping lever must be pressed to the right. This causes the take-up core to contract. The film roll can then be lifted out easily.

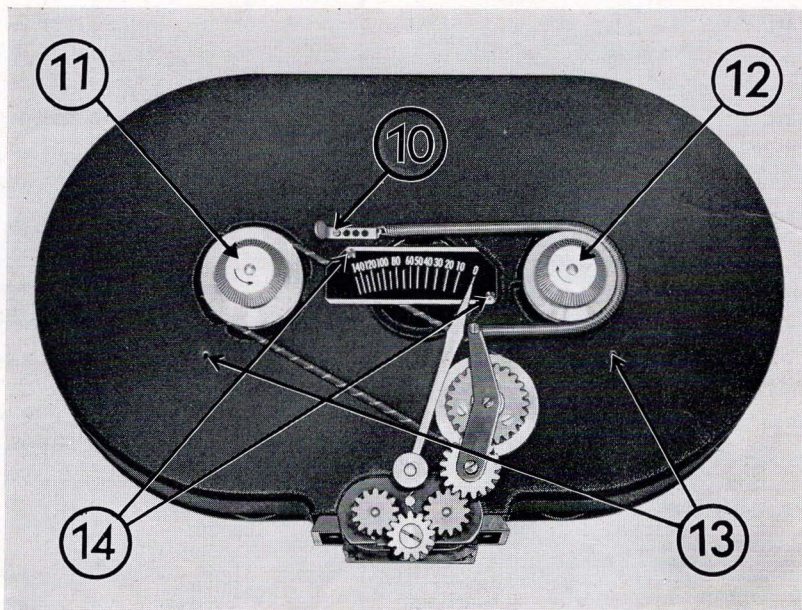
A plastic core can then be inserted into the reel. This is not always necessary, however, since the processing plant will do this automatically. The new take-up core, which can not be removed from the magazine, has the following advantages:

- The beginning of the film cannot slip from the take up, which would necessitate re-loading and loop forming, and
- the take up side will always have a circular shape. Any bulging, wobbling or "spoking" and also the danger of jamming is prevented.

To close the magazine, the two holding clips on the lid should be inserted obliquely into the slots in the lower edge of the magazine and the lid then folded over the magazine slowly and cautiously. When fitted correctly and snugly, the lid will close without effort. As soon as the magazine is properly closed, the locking bar should be turned to the right and the magazine inserted into the camera in the usual way.

Attention

Before switching on the camera motor the two milled discs on the back of the magazine should be tightened in the direction of the arrows engraved. Only in this way can possible sagging of the film in the magazine be avoided and uniform, jerk-free running ensured.



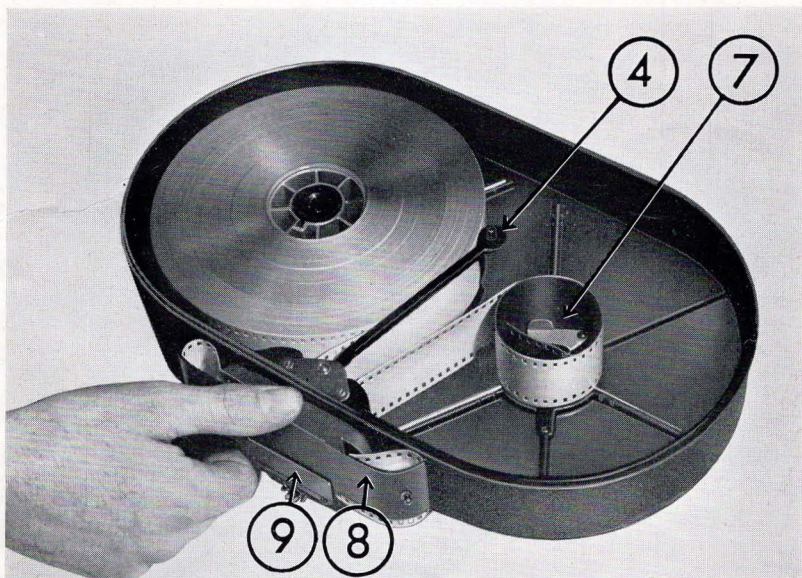
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|---|------------------------|
| 10 = Four-hole spring loaded eyelet | 12 = Feed spindle disc |
| 11 = Take-up spindle disc | 13 = Threaded holes |
| 14 = Retaining screws for footage scale | |

The new magazine has also a new and improved take up mechanism. If the spring tension should relax after some time and has to be re-adjusted, this is easily done. The protecting cover on the back of the magazine should be removed by unscrewing the two screws. This must only be done while magazine is empty. Then the tension can be increased by adjusting the four hole eyelet (10).

Film-loop protection during transport and storage

In order to avoid possible damage to the film base or the perforations when using ARRIFLEX 35 magazines of all types, the employment of the new loop protecting cover is recommended. This additional device consists of 5 components:

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|--------------------|---|---|
| 1 base plate | } | to be fixed securely to every magazine |
| 1 retaining piece | | |
| 2 retaining screws | | |
| 1 cover cap | = | loose, can be slipped on |



4 = Tensioning lever

8 = Looped protector cover

7 = Take-up core

9 = Retaining piece for 8

A new type of loop protection for the ARRIFLEX 35 magazine

If the loop protecting device has not been supplied with the magazine it should be mounted according to the following instructions:

Place the empty ARRIFLEX 35 magazine upside down on a table and unscrew the two countersunk screws on the camera side of the magazine mouth with a screw driver. First the base plate and then the retaining piece of the loop protector (with the oblique borings on top) should be placed on the threaded holes in the magazine mouth, and then the slightly longer retaining screws supplied with the protector should be slipped into the holes of the two components and then tightened on the magazine mouth.

After inserting the film into the magazine the film loop should be pressed loosely against the mouth of the magazine and the cover cap slipped over the film into the retaining piece. When this is done the film loop is completely covered and protected from kinks and damage. The cover cap is designed symmetrically and either edge can therefore be inserted into the retaining piece, where it will snap in correctly.

The magazine cases need not be altered to accommodate the new magazine and the same applies to the retaining piece with the base plate, which are permanently fixed to the magazine and do not impair the attachment of the magazine on the camera.

